

MIKHAYLOV, M. N., kand. med. nauk

Plastic surgery of the perioral region. Trudy KEMI no.2:113-118
'60. (MIRA 15:7)

1. Iz kafedry khirurgicheskoy stomatologii - zav. kafedroy
dotsent P. V. Naumov.

(SURGERY, PLASTIC) (FACE—SURGERY)

MIKHAYLOV, M. N., kand. med. nauk

Use of a fibrin film in free skin transplantation. Trudy KGM
no.2:119-122 '60. (MIRA 15:7)

1. Iz kafedry khirurgicheskoy stomatologii - zav. kafedroy
dotsent P. V. Naumov.

(SKIN GRAFTING) (FIBRIN)

MIKHAYLOV, M.N., kand.med.nauk

Complications in surgical fixation of fractures of the
jaw with a bone suture. Study 2001, 2002, 2003.

1. Iz kafedry khirurgicheskoy stomatologii (za katedroy
do'sent F.V.Naumov) Kaliningradskiy gosudarstvennyy
institute.

NAKHAMKIN, G.G.; MIKHAYLOV, M.V.

Automatic feeding regulator for combines. Trakt. i sel'khoz mash.
30 no. 12:19-20 D '60. (MIRA 13:12)
(Combines (Agricultural machinery))

AUTHOR: Mikhaylov, M.V., Mining Engineer SOV-127-58-10-19/29

TITLE: Improvements in Hoisting Equipment (Usovershenstvovaniya v pod'yemnom oborudovanii) From Foreign Literature (Po dannym inostrannoy literatury)

PERIODICAL: Gornyy zhurnal, 1958, Nr 10, pp 63-64 (USSR)

ABSTRACT: The author gathered information on the improvements made in hoisting equipment from 2 English and 1 German periodicals: "Colliery Guardian" (1957, vol 194, Nr 5016 pp 509-512), "The Mining, Electric and Mechanical Engineer" (1956, vol 37, Nr 435, pp 150-160) and "Bergbautechnik" (1957, Nr 4, p 211). There are 6 figures and 1 photo.

1. Hoists--Equipment

Card 1/1

MIKHAYLOV, M.V.

Hydraulic tamper. Put' i put.khoz. no.11:47 N '58. (MIRA 11:12)
(United States--Railroads--Equipment and supplies)

MIKHAYLOV, M.V.

Design for a universal stand. Geod. 1 kart. no.2:40-4 F '63.

(MIRA 16:3)

(Surveying---Instruments)

... V.

"The Reasons for Grapevine Damage During Covered Wintering in Moldaviya." Cand
Sci, Inst of Botany Imeni V. L. Komarov, Acad Sci USSR, Leningrad, 1955. (ML, No 15,
55)

Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
USSR Higher Educational Institutions (16).

MIKHAYLOV, M.V.; SYNZYNS, B.Z., kand. ekon. nauk.

Economic accountability within brigades and livestock sections of
collective farms. Nanka i pored. op. v sel'khoz. 7 no.12:47-49 D
'57. (MIRA 11:1)

1. Sekretar' Pyatigorskogo glavnogo komandovaniya Kommunisticheskoy
partii Sovetskogo Soyuza (for Mikhaylov).
(Collective farms--Accounting)

MILYAVSKIY, Il'ya Osipovich, kand.sel'skokhoz.nauk, starshiy nauchnyy
sotrudnik; MIKHAYLOV, Mark Vladimirovich, kand.ekonom.nauk;
KATSNEL'SON, S.M., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Cash payment on collective farms; experience in guaranteed cash
payment on collective farms of Stavropol Territory] Denezhnaia
oplatu truda v kol'khozakh; opyt primeneniia garantirovannoi
denezhnoi oplaty truda v kol'khozakh Stavropol'skogo kraia.
Moskva, Izd-vo "Znanie," 1959. 31 p. (Vsesoiuznoe obshchestvo
po rasprostraneniuiu politicheskikh i nauchnykh znanii. Ser.5,
Sel'skoe khoziaistvo, no.20). (MIRA 12:9)

1. Vsesoyuznyy institut ekonomiki sel'skogo khozyaystva (for
Milyavskiy). 2. Zaveduyushchiy otdelom agitatsii i propagandy
Stavropol'skogo kraykoma partii (for Mikhaylov).
(Stavropol Territory--Collective farms) (Wages)

MIKHAYLOV M.V.

MIKHAYLOV, M.V.

Using copper lead powder in reconditioning outworn working
surfaces of machine tools. Stan. i instr. 28 no.12:26-27 D '57.
(MIRA 10:12)

(Machine tools--Repairing)

(Powder metallurgy)

MIKHAYLOV, M.V.

Working model of a hot-water heating system. Politekh. obuch. no.1:
90-91 Ja '58. (MIRA 10:12)
(Mechanical models) (Hot-water heating)

Mikhaylov, M.V.
FOR: Mikhaylov, M.V., Engineer

117-3-13/28

LE: A Centrifugal Coolant Feeding Method (Tsentrobeznyy sposob podachi okhlazhdayushchey zhidkosti)

ODICAL: Mashinostroitel', 1958, # 3, p 29-32 (USSR)

TRACT: The article presents a review of Soviet and foreign information available on the centrifugal method of feeding the liquid coolant from the center to the periphery of grinding wheels through the wheel body, so that the coolant penetrates into the contact arc between the grinding wheel surface and the work surface. This is not possible with the conventional coolant feeding method. The application of the centrifugal coolant feeding method for internal grinders at the Leningrad Machine Tool Plant imeni Sverdlov is described.

There are 11 figures, and 3 Russian, 2 English, and 1 French references.

ILABLE: Library of Congress

1 1

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307/117-10-1-41/33

AUTHOR: Mikhaylov, M.V., Engineer

TITLE: Broaching of Metals

PERIODICAL: Mashinostroitel', 1989, No 6, 11-12-1989 (USSR)

ABSTRACT: The author describes different methods of broaching, as practiced abroad, and also different types of foreign broaching machines. The article is compiled from foreign technical periodicals. There is 1 drawing, 1 diagram and 1 reference, 1 of which is German and 4 English.

Card 1/1

GNILOVSKIY, V.G., red.; KOZKO, D.I., red.; KOPTEV, N.N., red.;
KUZNETSOV, P.M., red.; MIKHAYLOV, M.V., red.; NESIS,
Ye.I., red.; RALL, Yu.M., red.; RAFALOVICH, M.B., red.;
STRAKHOV, S.M., red.; STEBLYANKO, I.V. tekhn. red.

[In this book are given the answers to the questions: 1. Are there intelligent beings on other planets? 2. What significance has the Kuban-Kalaus Irrigation and Water-Supply System for Stavropol? 3. What is travertine? How is it formed and for what purposes is it used?] V etoi knige dany otvety na voprosy: 1. Est' li razumnye sushchestva na drugikh planetakh? 2. Kakoe znachenie imeet dlia Stavropolia Kuban -Kalausskaia obvodnitel'no-orošitel'naiia sistema? 3. Chto takoe travertin, kak on obrazuetsia i v chem ego poleznost'? Stavropol', Stavropol'skoe knizhnoe izd-vo, 1960. 32 p. (MIRA 16:11)
(Plurality of worlds) (Kuban- Water supply)
(Travertine,

MIKHAYLOV, M.V.; KIRILLOV, A.F.

Some causes of the physiological incompatibility of grafting
components causing the death of grafted grapevines. Izv.AN
Mold.SSR no.4:53-62 '63. (MIRA 18:1)

MIKHAYLOV, M.V., kand.tekhn.nauk

Calculation of the efficiency of automatic control of the operation
of mobile agricultural machinery. Mekh. i sots. sel'khoz. 21
no.4:19-23 '63. (MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-
nogo mashinostroyeniya.
(Agricultural machinery) (Automatic control)

RUSAKOV, G.K., kand. sel'khoz. nauk; MILYAVSKIY, I.O., kand. sel'khoz. nauk; SHILKO, V.P., kand. sel'khoz. nauk; MARTINENAS, A.N.; SELINSKIY, A.I., agr.-ekonom.; KARPUSHENKO, A.I., agr.-ekon. [deceased]; POSITNYI, V.M., ekonom.; PANCHENKO, Ya.I., agr.-ekonom.; KVACHEV, V.M., agr.-ekonom.; SOBOLENKO, V.S.; KRAVTSOV, D.S., agronom.; LYSOV, V.F., ekonom.; SHLYAKHTIN, V.I., kand. ekon. nauk; TSYBUL'KO, F.Ye.; ORIKHOVSKIY, I.G., agr.-ekonom.; TATUREVICH, N.M., agr.-ekonom.; GATMASH, I.I.; NOSACHENKO, V.F., inzh.-ekonor.; MUKHOMISULLIN, Sh.M., agr.-ekonom.; ROZENTSVAYG, A.L., agr.-ekonom.; BERLIN, M.Z., dots.; IVANOV, K.I., agr.-ekonom.; SILIN, A.G., ekonom.; LIKHOT, I.K.; CHANOV, G.I., kand. ekon. nauk; MIKHAYLOV, M.V., kand. ekon. nauk; GORELIK, L.Ya., red.

[Planning and economical operation on collective farms]
Planirovaniye i rezhim ekonomii v kolkhozakh. Moskva, Ekonomika, 1965. 258 p. (MIRA 18:5)

1. Zaveduyushchiy otdelom ekonomiki i organizatsii kol-khoznogo proizvodstva Nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva Litovskoy SSR (for Martinenas). 2. Zaveduyushchiy otdelom Stavropol'skogo krayevogo komiteta KPSS (for Likhot).

MIKHAYLOV, M.V., kand. biol. nauk, otv. red.; KUSHNIRENKO, M.D.,
kand. biol. nauk, red.; DASHKEYEVA, K.N., kand. biol.
nauk, red.; KIRILLOV, A.F., ml. nauchn. sotr., red.

[Problems in the physiology of frost and drought resistance
of fruit trees and grapes] Voprosy fiziologii zimostoičnosti
i zasukhoustoichivosti plodovykh i vinograda. Kishinev,
Kartia molodoveniaske, 1965. 117 p. (MIRA 18.1)

1. Akademiya nauk Moldavskoy SSR. Institut fiziologii i
biokhimii rastenii.

SECRET

1. The following information was obtained from the Cuban Bureau
of the Ministry of the Interior, Havana, Cuba, on 10/10/64.
2. The Cuban Bureau of the Ministry of the Interior, Havana, Cuba, on 10/10/64.

MIKHAYLOV, M.Ye., brigadir prokhodchikov

Work even better, more efficiently! Transp. stroi. 12 no. 2:4 P '62.
(MIRA 15:7)

1. Stroitel'stvo No.15 Leningradskogo metrostroya.
(Leningrad--Subways)

HAZYGRAYEV Aleksandr Iatveyevich; GRILLOFF, A.I., zash. tekhn.
nauch. ratsenent; MIKHAYLOV, I.Ye., inzh., ratsenent;
MILINA, L.S., red.

(Technology and organization of the repair of aircraft
machinery and equipment) Tekhnologiya i organizatsiya
remonta stroitelnykh mashin i stroitelnykh ma-
shin, Str. 100, 100 p. (100 p. (100 p.))

AGRANOVSKIY, I.; ARANOVICH, B.; BELYAYEVA, V.; BOL'SHAKOV, A.; GRUZDEV,
V.; LICH, S.; ZELENTSOV, I.; KONKIN, A.; LEVIT, R.; MIKHAYLOV,
N.; MOGILEVSKIY, Ye.; SERKOV, A.; SMELKOV, G.; SNETKOV, N.;
SOROKIN, Ya.; SHIFRIN, L.

In memory of Vladimir Sergeevich Smurov, 1897-1965. Khim.
volok. no.2:78 '65. (MIRA 18:6)

NYHYUV, N., kand. sel'skokhoz. nauk

Chemistry in agriculture. Prof. cert. abt. 21 no. 5-12-15

My '94.

1429: 27 5

MIKHAYLOV, N.

Pioneer of space routes. Komm. Vooruzh. Sil 46 no. 1:33-35 Ap 1965.

MLSA 18:5

UR'YEV, N.B.; PCHELKINA, T.; MIKHAYLOV, N.

A solution glues cement. Grazhd. av. 21, no. 12:26 D '64.
(MIRA 18:12)

SOV/122-59-5-25/32

AUTHORS: Mikhaylov, N.A., Engineer, and Polytov, A.V., Engineer

TITLE: Set-up for the Grinding of a Contour by Copying a Master (Ustanovka dlya shlifovaniya kontura po kopiru)

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 5, pp 70-71 (USSR)

ABSTRACT: An installation for the grinding of a profiled slot by copying a master is illustrated and described. On the hydraulic copying attachment of a lathe is mounted, instead of a tool holder, a special grinding head, consisting of a bracket, which carries a pneumatically driven grinding spindle ($n = 12,000$ rpm) as well as a pneumatic drill ($n = 3500$ rpm). The spindle of the grinding mechanism carries a grinding wheel at the end. The whole grinding mechanism can be reciprocated in vertical slideways through a worm reduction gear, which is driven by the pneumatic drill motor via a worm reduction and a crank. The grinding mechanism can also be adjusted in the vertical direction by means of a screw. The workpiece is mounted on a frame attached to

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SOV/122-59-5-25/32

et-up for the Grinding of a Contour by Copying a Master

the lathe bed. The master is also attached to the
lathe bed. There are 3 figures.

ard 2/2

AFANAS'YEV, G.D.; AFANAS'YEV, L.M.; BELIKOV, B.P.; KOPTEV-DVORNIKOV, V.S.; MIKHAYLOV, N.A.; MONICH, V.K.; FAVORSKAYA, M.A.; prinizali uchastiye: DISTANOVA, A.N.; YELISEYEVA, O.P.; MARFUNIN, A.S.; YUNAKOVSKAYA, Yu.V.; USTIYEV, Ye.K., doktor geol'min. nauk, otv. red.; NEMANOVA, G.F., red. izd-va; BYKOVA, V.V., tekhn. red.

[Principles of the geological mapping of intrusive and extrusive formations as exemplified by petrographic studies in Kazakhstan, Transbaikalia, the Northern Caucasus, and Maritime Province]
Printsipy geologicheskogo kartirovaniya intruzivnykh i effuzivnykh formatsii na primere petrograficheskikh issledovaniy Severnogo Kavkaza, Kazakhstana, Zabaikal'ia i Primor'ia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol.i okhrane nedr, 1960. 341 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimi. 2. Sotrudnik Instituta geologicheskikh nauk AN Kaz. SSR (for Monich). 3. Sotrudnik Vsesoyuznogo geologicheskogo instituta (for Mikhaylov) 4. Sotrudniki Moskovskogo gosudarstvennogo universiteta (for Yunkovskaya, Distanova)

(Rocks, Igneous)

MIKHAYLOV, N.A.; VEDERNIKOVA, T.I.; OZHIGOV, Ye. P.

Pyrohydrolysis of quartz-carbonate datolite ores under dynamic conditions. Izv.Sib.Otd.AN SSSR no.2:68-75 '61. (MIRA 14:3)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR, Vladivostok.
(Hydrolysis) (Datolite)

PIMENOV, A.M.; MIKHAYLOV, N.A.

Preliminary fuel filters for tractor diesel engines. Trakt. 1
sel'khomash. 32 no.9:20-22 S '62. (MIRA 15:12)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny
institut.
(Tractors--Fuel systems) (Diesel fuels)

MIKHAYLOV, N.A., inzh.

Gulfs on railroad lines and their elimination. Transp. stroi.
12 no.1:15-37 Ja '62. (MIRA 17:2)

KULEVA, A.K.; FILINA, N.V.; MIKHAYLOV, N.A.

New ShP-24 braiding machine. Tekst.prom. 19 no.12:49-51
D '59. (MIRA 13:3)

(Braid) (Textile machinery)

SKHAYLOV, N. A.

Cand. Tech. Sci.

ssertation: "Deformations of Leather." 23 Jan. 49

oscow Technological In t. of Li ht Industry. m. L.M. Kaganovich

SO Vecheryaya Moskva
Sum 71

ZAYONCHKOVSKIY, A.D.; YABKO, Ya.M.; MIKHAYLOV, N.A.; FEOKTISTOV, V.K.;
SHMERLING, B.M.; BERNSTEYN, M.Kh.; GUS'KOV, F.G.; PARAMONOV, V.G.;
GLUZMAN, G.M.; GRIGORIADI, M.T.

Polyamide treatment of imitation kidskin and flesh layer splits.
Leg.prom. 16 no.10:22-26 0 '56. (MIRA 10:12)
(Hides and skins) (Amides)

KUTSIDI, Aleksandra Veniaminovna; MIKHAYLOV, Nikolay Andreyevich;
SE'ASHKO, Lev Stanislavovich; AL'TSHULLER, L.I., red.;
BEL'CHIKOVA, Yu.S., tekhn. red.

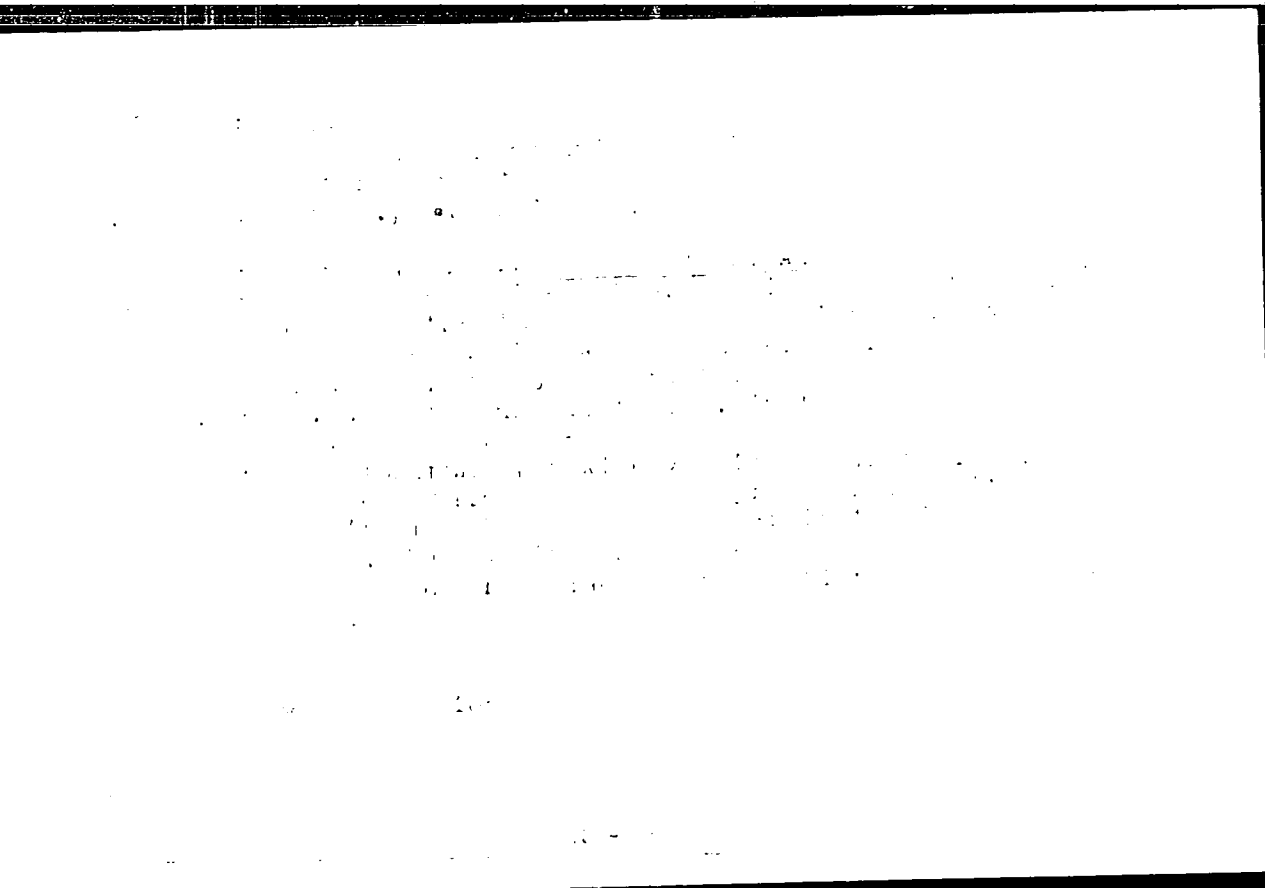
[Handbook for the X-ray laboratory technician] Spravochnik
rentgenolaboranta. Moskva, Medgiz, 1962. 198 p.

(MIRA 15:3)

(RADIOLOGY, MEDICAL)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001034010020-0



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P

Country : USSR
 Category : Microbiology. Microbes Pathogenic for Man and Animals.
 Abs. Jour : Ref Zhur-shion, 1957, 5, 10, 11
 Author : Molesov S.G.; Mikhaylov N.A.
 Institut. : State Scientific Control Institute for Veterinary*
 Title : Checking of Immunogenic Properties of the Matrices of
 the First Tschenkovski Vaccine on Laboratory Animals
 Orig. Pub. : Tr. Gos. nauchno-kontrol'n. in-ta vet. preparatov, 1957,
 7, 206-208
 Abstract : No abstract.
 *Preparations

Card: 1/1

MIKHAYLOV V A

KOLESOV, S.G., prof.; MIKHAYLOV, N.A., kand. vet. nauk; BORISOVICH, Yu.F.,
mladshiy nauchnyy sotrudnik.

Aluminum hydroxide vaccine against malignant anthrax. Veterinariia
74 no.10:39-45 O '57. (MLRA 10:11)

1. Gosudarstvenny nauchno-issledovatel'skiy institut veterinarnykh
preparatov Ministerstva sel'skogo khozyaystva SSSR.
(Anthrax-Preventive inoculation)

ACC NR: AP6030796 (A,N) SOURCE CODE: UR/0346/66/000/009/0015/0018

AUTHOR: Vershilova, P. A.; Ivanov, M. M.; Orlov, Ye. S.; Kaymazova, Ye. I.;
Kurdina, D. S.; Zasedateleva, G. S.; Mikhaylov, N. A.; Pinigin, A. F.; Merinov,
S. P.; Dranovskaya, Ye. A.; Davydov, N. N.

ORG: none

TITLE: Brucellosis cultures isolated from deer in the northern Soviet Union

SOURCE: Veterinariya, no. 9, 1966, 15-18

TOPIC TAGS: brucellosis, brucella culture, disease vector, deer, animal disease

ABSTRACT: Brucellosis is widely distributed among deer in the northern part of the Soviet Union. In general they serve as carriers and epizootic reservoirs of brucellosis in cattle and sheep. The most typical species is *Brucella abortus*, with the other two common types rare or absent. A fourth type, *Br. rangifert*, differing from the others, was also isolated.

[WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 014/ OTH REF: 010

Card 1/1

UDC: 619.616.981.42-02.636 294

MIKHAYLOV, N.D.

Pancreas - Tumors

Diagnosis of tumors of the head of pancreas and of the ampulla of Vater.
Sov. med. 16 no. 2, 1952.

. Monthly List of Russian Accessions, Library of Congress, August 1952 ~~1953~~, Uncl.

MIKHAYLOV, N.D.; FILIPPOVA, V.S., red.; SMIRNOV, G.I., tekhn.red.

[Young railroad workers' groups] Krushok iunykh zheleznodorozhnikov.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1957. 152 p.
(MIRA 10:12)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye shkol.
(Railroads--Models)

SHAPIRO, Ye.A.; ZHUKOVSKIY, Ye.S.; MUSTAFABEKOVA, A.A.; MIKHAYLOV, N.D.;
KOBLYANSKIY, A.E.; KONONYKHIN, A.G.; EPSHTEYN, R.R.; KARPINSKIY,
V.F.; DAVYDOVA, R.T.; TROITSKIY, V.I., red.; GOR'KOVA, A.A.,
vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Establishing standards for material consumption and stocks in the
petroleum industry] Normirovanie raskhoda i proizvodstvennykh
zapasov osnovnykh materialov v neftianoi promyshlennosti. Moskva,
Gos.nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry, 1959.
252 p. (MIRA 12:12)

(Petroleum industry--Standards)

MIKHAYLOV, N.D., kand.tekhn.nauk, dots.

Designing parallelogram-shaped plates for composite resistance.

nasch.na prochn. no.2:85-93 '98. (MIRA 12:2)

(Elastic plates and shells)

KHAYLOV, N. D.

Planted Lamina With a Parallelogram Outline Pinched Along the Edge." Cand Tech Sci,
Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, 20 Dec 54. (VM, 9 Dec
)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (12)

: SUM No. 556, 24 Jun 55

TSYDZIK, Petr Vladimirovich; MIKHAYLOV, N.D., dots., retsenzent;
MIKHAYLOV, M.N., retsenzent; RYABTSEVA, I.L., red.;
BARANOVSKAYA, K.P., tekhn. red.

[Contact stresses] Kontaktnye napriazhenia; uchebnoe po-
sobie. Moskva, Mosk. aviatsionnyi in-t im. Sergo Ordzhoni-
kidze, 1962. 15 p. (MIRA 17:4)

MIKHAYLOV, N.F.

KUDRYAVTSEV, V.N., professor, doktor tekhnicheskikh nauk; MARKOV, V.G.,
kandidat tekhnicheskikh nauk, dotsent, redaktor. MIKHAYLOV, N.F.,
inzhenier, retsenzent.

[Simplified calculations for gear transmissions] Uproshchennyye
raschety zubchatykh peredach. Leningrad, Gos. nauchno-tekhn. izd-vo
mashinostroit. i sudostroit. lit-ry [Leningradskoe otd-nie] 1953.

52 p.

(MLRA 7:7)

(Gearing)

1.1804

S/194/62/000/008/096/100
D413/D308

AUTHORS: Gordiyenko, N.K., Mikhaylov, N.F., and Shkakina, E.P.

TITLE: A twin-channel oscillator for phase measurements

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1962, abstract 8-7-235 b (Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova, no.1, 1960, 59-64)

TEXT: A description is given of a twin-channel oscillator designed for the calibration of phase detectors and for the measurement of phase shifts in four-terminal networks by the compensation technique. The instrument uses a circuit for adjusting the phase-shift between two microwave signals generated by it, by means of a standard slotted measuring line having a matched load at its end. The two signals differ in frequency by about 30 Mc/s, and both are generated by klystrons. They are combined in crystal mixers. One of the arms contains a phase-shifter with shift variable from 0 to 360°. In the output of both channels are IF amplifiers (amplifying and filtering the signals) and a null indicator for finding the

Cara 1/2

A twin-channel oscillator for ...

S/194/62/000/008/096/100
D413/D308

initial phase-shifter setting at the start of the measurement. The oscillator can also be used for pulse working. Its maximum overall error is about 4° . [Abstracter's note: Complete translation.]

Card 2/2

3/207/61/000/006/025/025,
A001/A101

AUTHOR: Mikhaylov, N.G. (Novosibirsk)

TITLE: On the theory of wave drag

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1961,
183 - 186

TEXT: The author analyzes the formula by N.Ye. Kochin (O volnovom soprotiv-
lenii i pod'yemnoy sile pogruzhennykh v zhidkost' tel [On wave drag and lift of
bodies immersed into a liquid], Collection of works, v. 2, AN SSSR, 1949) for wave
drag of bodies symmetric relative to diametric plane. He presents this formula in
terms of simpler integrals enabling one to calculate them and investigate the ef-
fect of the body shape on the magnitude of wave drag. As a result of his analysis
the author proves that Kochin's integral can be presented as a sum of three compo-
nents: Mitchell's integral, the second term expressing the effect of the body
volume, and the third term, a non-linear component, which takes into account the
squares of induced velocities while integrating pressure over the surface of the
body. There is 1 Soviet-bloc reference.

SUBMITTED: January 24, 1961

Card 1/1

MIKHAYLOV, N.G., Cand Tech Sci -- (diss) " Study of the
dynamics and speed of rotary electric drilling of bore
holes of enlarged diameters." Mos, 1958. 16 pp (^{Man}~~Principal~~ ~~Author~~)
Administration of Sci-Res and ~~XX~~ Planning Organizations
under the State Planning Commission USSR. All-Union
Sci-Res Coal Inst VUGI). 150 copies.
(KL. 12-58, 98)

KAMENKA, B.I., inzh.; MIKHAYLOV, N.O., kand.tekhn.nauk

"Handbook on boring and blasting operations." Shakht.
stroil. 4 no. 6:31-32 Je '60. (MIRA 13:11)
(Boring) (Blasting)

MIKHAYLOV, N.G., kand. takhn. nauk

Problem of the relationship between the diameter of a cut and the
rate of boring holes with hand electric drills. Trudy Inst. gor.
dela 5:93-96 '60. (MIRA 14:5)

(Boring machinery)

MIKHAYLOV, N.G., kand. tekhn. nauk

Experimental studies of conditions of electric rotary drilling
of boreholes with various diameters in rocks. Nauch. soob.
IGD 15:140-144 '62. (MIRA 17:2)

MIKHAYLOV, N.G., kand.tekhn.nauk

Principles of the technical conditions in designing coal cutters
for boring deep blastholes. Nauch. soob. IGD 17:131-135 '62.

(MIRA 16:7)

(Coal mining machinery)

MIKHAYLOV, N. I.

✓ 4048. Solvents for regeneration of rubber. N. I. Nikolay, N. I. Mikhailov, and T. G. Yanterov, U.S.S.R.P. 103203; acc. 25.3.57. Chem. Abs., 1957, 51, 10111. Vulcanized waste products are treated in vacuo at below 500°C in an inert gas or superheated steam. SN18

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MIKHAYLOV, N.I.

"In the Altay." Reviewed by N.I. Mikhailov. Geog. v shkole no.2:77 Mr-
Ap '53. (MLRA 6:5)

(Altay Mountains) (Kuminova, A.)

MIKHAYLOV, N. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name

Title of Work

Nominated by

Mikhaylov, N. I.

"Siberia"

Moscow State
University imeni
M. V. Lomonsov

O: W-30604, 7 July 1954

MIKHAYLOV, N.I.

Review

"Principal problems of physical geography." A.G.Isachenko. Reviewed by N.I.Mikhailov. Vop.geog. vol.33:281-289 '53. (MLRA 7:3)
(Physical geography) (Isachenko, A.G.)

SK/Geophysics - Physical Geography Course

FD-1692

rd 1/1 : Pub. 129-17/25

thor : Mikhaylov, N. I.

tle : Concerning the structure of the course 'physical-geographical regional classification' (A question of educational procedure)

riodical : Vest. Mosk. un., Ser. fizikomat. 1 yest. nauk, Vol. 10, 159-164, Feb 1955

stract : Three years ago the special course of physical-geographical regional classification, previously never taught in universities, was included in the school plans of the physical-geographical specialty of the geographical faculty of Moscow University by the Ministry of Higher Education. The following circumstances occasioned the inclusion into the program of this rather specialized course significant as to contents (36-48 hours of lectures and 12-24 hours of practical pursuits):
1) Interest, sharply rising in Soviet geography, in problems of methodology and procedures of regional classification in connection with mainly agricultural production; 2) the accumulation of quite considerable auxiliary material both literature and cartographical pertaining to regional classification in physical geography; 3) the appearance in recent years of numerous works on regionalization. No references.

stitution : Chair of Physical Geography of the USSR

mitted : January 11, 1954

MIKHAYLOV, N. I.

"Zapiski" of the Ural Division of the Geographic Society of the
U.S.S.R., no.1, 1954. Reviewed by N.I.Mikhailov. Izv.Vses.
geog.ob-va 87 no.2:186-187 Mr-Apr '55. (MIRA 8:9)
(Geography--Periodicals)

Михайлов
GVOZDETSKIY, N.A., professor; MIL'KOV, P.N., professor; MIKHAYLOV, N.I.
dotsent; GLAZOVSKAYA, M.A., professor, redaktor.

[Program for "Physical geography of U.S.S.R." in geography
departments of state universities] Programma po fizicheskoi
geografii SSSR dlia geograficheskikh fakul'tetov gosudar -
stvennykh universitetov. [Moskva]. Izd-vo Mosk.univ., 1956.
19 p. (MLRA 10:6)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.
(Physical geography)

11 K 14-57-7-14387
Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 13 (USSR)

AUTHOR: Mikhaylov, N. I.

TITLE: Typological Zoning in Regional Geography (O tipologicheskoy fiziko-geograficheskoy rayonirovaniy)

PERIODICAL: Vopr. geografii, 1956, sb 39, pp 3-27

ABSTRACT: Up to the present time no serious effort has been made to systematize typological principles and methods used in forming physical groups. One attempt to group natural complexes typologically consisted of comparing analogous landscapes in a physical region. These landscapes, often described in terms of their origin or morphology, are assembled in typological groups. Maps of regional groupings, which show boundaries between complexes of corresponding taxonomic levels, are essential for determining analogous complexes.

Card 1/2

14-57-7-14387

Typological Zoning in Regional Geography (Cont.)

Various types of physical complexes may be differentiated within the groups of complexes of any taxonomic order. General classifications (most often morphological or genetic) of spatial groups are basic to typological grouping. Only the most important features should be selected for typological grouping, and the methods used in selecting these features should be similar to those used in forming cartographic generalizations. At the present time typological classification of physical complexes does not include every feature in the complex, but only the most important ones. Typological grouping represents an independent part of physical grouping, and it differs from regional grouping in both approach and execution. The main aims of this work are: to devise new principles for classification; to develop methods for a scientific analysis of spatial laws and of the formation of complexes; to represent cartographically the results obtained from typological grouping; and to utilize the results of grouping. A bibliography of 23 titles is included.

Card 2/2

N. M. Bogdanova

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. un. 40:231-267 '57. (MIRA 11:6)

1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).
2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov, Miroshnichenko, Petrov).
3. Institut geografii AN SSSR, Moskva (for Armand, Sobolev).
4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov).
5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova).
6. Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov).
7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev).
9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva).
10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze).
12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev).
13. Torgovo-ekonomicheskii institut, L'vov (for Perevalov).
14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas).
15. Muzei zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov).
16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

MIKHAYLOV, N.I.

"Physico geographical zoning" by F.N. Milkov. Izv. AN SSSR Ser.
geog. no.2:157 Mr-Apr '57. (MIRA 10:12)
(Physical geography)
(Milkov, F.N.)

MIKHAYLOV, N.I.

Fundamental problems in the theory of physico-geographical
zoning. Geog. i khoz. no.1:43-48 '58. (MIRA 12:1)
(Physical geography)

MIKHAYLOV, N. I. (Moscow)

"The Descriptive Characteristics of Landscape Complexes."

Report presented at the Third Conference on Landscape Study, Tbilisi,
7-12 June 1958. (izv. Ak nauk SSSR, ser geograficheskaya, 1958, No. 6,
pp. 150-55)

MIKHAYLOV, N.I.

Detailed physical geographical zoning at various levels. Vest.
Mosk.un.Ser.biol.,pochv.,geol.,geog. 13 no.4:175-183 '58.
(MIRA 12:4)

1. Kafedra fizicheskoy geografii SSSR Moskovskogo universiteta.
(Physical geography)

MIKHAYLOV, N.I.

Taxonomic units for physico-geographical complexes in connection with I.U.P. Parmizin's article. Nauch.dokl.vys.shkoly; geol.-geog. nauki no.2:178-186 '59. (MIRA 12:8)

1. Moskovskiy universitet geograficheskiy fakul'tet, kafedra fizicheskoy geografii SSSR.
(Physical geography)

KHAYLOV, NIKOLAY IVAN VICH

Fizicheskaya Geografiya Sibiri i Dal'nego Vostoka and Moscow Izd-vo
skovskogo Universiteta, 1960-

v. Maps.

At Head of Title: Moscow. Universitet. Geograficheskii Fakul'tet.

Includes Bibliographies.

GVOZDETSKIY, N.A., red.; MIKHAYLOV, N.I., red.; PETROVA, K.A., red.;
YERMAKOV, M.S., tekhn.red.

[Physicogeographical regionalization of the U.S.S.R.; survey of
published materials] Fiziko-geograficheskoe raionirovanie SSSR;
obzor opublikovannykh materialov. Moskva, Izd-vo Mosk.univ.,
1960. 285 p. (MIRA 13:12)

(Physical geography)

MAKUNINA, Aleksandra Aleksandrovna, dotsent; MIKHAYLOV, Nikolay Ivanovich, dotsent; PARMUZIN, Yuriy Pavlovich, starshiy nauchnyy sotrudnik; SOLOV'YEV, Aleksandr Ivanovich, dotsent; GVOZDETSKIY, N.A., prof., red.; YUDIN, G.F., red.; YERMAKOV, M.S., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for correspondence school students attending geographical faculties of state universities] Fizicheskaya geografiya SSSR; izbrannye lektsii dlia studentov-zaochnikov geograficheskikh fakul'tetov gosudarstvennykh universitetov. Pod red. N.A.Gvozdet'skogo. Moskva, Izd-vo Mosk.univ. No.4. 1960. 167 p.

(MIRA 14:3)

1. Kafedra fizicheskoy geografii SSSR geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for Makunina, Mikhaylov, Parmuzin, Solov'yev). 2. Zaveduyushchiy kabinetom istorii geografii Moskovskogo gosudarstvennogo universiteta; chlen-korrespondent Akademii pedagogicheskikh nauk (for Solov'yev). (Physical geography)

MIKHAYEV, N. I.

"Problems of Dividing the USSR into Physical Geographical Regions"

report to be submitted for the Intl. Geographical Union, 10th General Assembly
and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

MIKHAYLOV, N.I.

[Physical geography of Siberia and the Far East; a course of lectures]
Fizicheskaiia geografiia Sibiri i Dal'nego Vostoka; kurs lektsii. Moskva, Izd-vo Mosk. univ. Pt.1. [Siberia (a general survey), Western Siberia, Central Siberia] Sibir' (obshchii obzor), Zapadnaia Sibir'. Sredniaia Sibir'. 1960. 172 p. Pt.3. [Northeastern Siberia] Severo-Vostochnaia Sibir'. 1961. 61 p. (MIRA 14:10)
(Siberia—Physical geography)

MIKHAYLOV, Nikolay Ivanovich; STRIGIN, V.M., red.; BELICHENKO, R.K.,
mladshiy red.; GOLITSYN, A.V., red. kart; VILENSKAYA, E.N.,
tekhn. red.

[Mountains of southern Siberia; nature study] Gory Iuzhnoi Sibiri;
oчерk prirody. Moskva, Gos. izd-vo geogr. lit-ry, 1961. 236 p.
(MIRA 14:11)

(Siberia--Mountains)

MIKHAYLOV, N.I. .

Modern glaciation of the Shapshal'skii Range (eastern Altai). Izv.
AN SSSR, Ser. geog. no. 3:76-81 My-Je '81. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova,
geograficheskiy fakul'tet.
(Shapshal'skiy Mountains--Glaciers)

MIKHAYLOV, N. I.

Fiziko-Geograficheskoye Rayonirovaniye SSSR; obzor
publikovannykh Materialov. Pod red. N.A. Gvozdet-
ova i N.I. Mikhaylov (Moskva) Izd-vo Moskovskogo
Universiteta, 1960.

285 p. maps, tables.

Includes bibliographical references.

GROZDETSKIY, Nikolay Andreyevich, prof.; ZHUCHKOVA, Vera Kapitonovna, dotsent; MIKHAYLOV, Nikolay Ivanovich, dotsent; PARMUZIN, Yuriy Pavlovich, starshiy nauchnyy sotrudnik; FEDINA, Aleksandra Yefimovna, kand.geograf.nauk; DANIL'CHENKO, O.P., red.; GEORGIYEVA, G.I., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for correspondence-school students of geographical faculties of state universities] Fizicheskaya geografiya SSSR; izbrannye lektsii dlia studentov-saochnikov geograficheskikh fakul'tetov gosudarstvennykh universitetov. Pod red. N.A.Gvozdet'skogo. Moskva, Izd-vo Mosk.univ. No.5. 1960. 60 p.

(MIRA 14:2)

(Physical geography)

KRIVOLUTSKIY, A.Ye.; MIKHAYLOV, N.I.

"Development and problems of the physical and territorial division
(Physical-geographical regionalization) of Germany" by I.F.
Gellert. Reviewed by A.E.Krivolutskii, N.I.Mikhailov. Vest.
Mosk.un.Ser.5: Geog. 15 no.1:77-78 '60. (MIRA 13:8)
(Germany, East--Physical geography)
(Gellert, I.F.)

MIKHAYLOV, N.I.

Spatial differentiation of large physico-geographical complexes of
the mountains of southern Siberia. Vop. geog. no 5:107-111 '61
(MIRA 15:1)
(Siberia--Physical geography)

MIKHAYLOV, N.I.; PONOMAREV, V.I.; SOLOVYOV, Gen. E.

Thermodynamic data on copper arsenide. Trudy Ak. Nauk Kazakh.
SSR 14:60-65 '63. (MIRA 16:9)
(Copper arsenide—thermodynamic properties)

MIKHAYLOV, N.I.

Possibility of calculating the dates of the stable passing
of the air temperature through 5°. Trudy Ukr NIGMI no.49:
93-105 '65. (MIRA 18:8)

MIKHAYLOV, N.I.; FRUKTOV, V.V., inzhener, retsenzent.

[Technology of metalworking] Tekhnologiya mekhanicheskoi obrabotki.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-
ry, 1954. 253 p. (MLRA 7:7)
(Machine-shop practice) (Metal cutting)

MIKHAYLOV, N.I.; CHEREZOV, V.K.

New progressive technique for thermal treatment of caterpillar
tractor links. Prom.energ. 12 no.6:15 Je '57. (MLRA 10:7)
(Steel--Heat treatment) (Caterpillars (Vehicles))

28 (5)
AUTHOR: Mikhaylov, N. I. 05729
SOV/32-25-10-18/6'

TITLE: Determining the Yield of Electroprecipitated Metals from the Current by the Gasometric Method

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1204 - 1205 (USSR)

ABSTRACT: The gravimetric method of determining the yield in the electric precipitation of metals is not very efficient and takes much time. In cases where no side reactions take place in the electrolysis and only the metal- and hydrogen ions are discharged, the gasometric method may be used for this purpose. The amount of hydrogen separated is measured, and the current fraction required for separating the hydrogen and metal is computed (in %) from the known values of electrolysis duration and amperage. The amount of hydrogen separated is measured by holding a calibrated measuring cylinder (provided with a cock on top) over the cathode in the middle of the electrolyzer (Figure); the hydrogen rises in this cylinder, and the volume of the hydrogen separated can thus be measured. The pressure of hydrogen in the measuring cylinder can be computed by an equation. The yield of hydrogen separated with respect to the cur-

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05729

SC7/32-25-10-18, 63

Determining the Yield of Electroprecipitated Metals
from the Current by the Gasometric Method

rent is also computed by an equation. The maximum error of
such measurements did not exceed 0.06%. There is 1 figure.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut im. D. I.
Mendeleeva (Moscow Institute of Chemical Technology imeni
D. I. Mendeleev)

Card 2/2

KUDRYAVTSEV, N.T.; TYUTINA, E.M.; MIKHAYLOV, N.I.; GLAZUNOVA, V.K.

Causes of the formation of dark spots on the surface of zinc
plated parts. Izv.vys.ucheb.zav.; khim.i khim tekhn. 3 no.1:
166-169 '60. (MIRA 13.6)

1. Kafedra elektrokhimii Moskovskogo khimiko-tekhnologicheskogo
instituta imeni D.I. Mendeleeva.

(Zinc plating)

(Zinc--Corrosion)

15. 8100
18. 6100

82561

3/080/60/033/06/02/006

AUTHORS: Kudryavtsev, N. T., Mikhaylov, N. I.TITLE: Electrolytic Production of Highly-Dispersed Iron Powder¹

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 6, pp. 1360-1365

TEXT: Large quantities of iron powder are needed by powder metallurgy. Sulfate, chloride, nitrate, citrate and oxalate solutions of iron salts and also alkaline solutions containing iron in the form of ferrites and suspensions of colloidal hydroxide particles were investigated to obtain a highly-dispersed homogeneous iron powder. The best results were obtained with an electrolyte described earlier (Ref. 7) containing iron sulfate and potassium sulfate up to saturation. The optimum acidity of the solution containing 82 g/l $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ (~ 0.6 n) is pH = 3.0-3.5. In this case the spongy deposit on the cathode² is more homogeneous and purer than at higher pH values. The current yield of the metal decreases with an increase in the current density, especially at an increased pH value of 4.0-4.5. With a temperature increase from 20 to 40°C the current yield of the metal increases from 10 to 80%, but at a temperature above 30°C the spongy deposit is removed from the surface of the electrode only with difficulty. With an increase in the iron concentration the current yield of

Card 1/2

825 61

S/080/60/033/06/02/006

Electrolytic Production of Highly-Dispersed Iron Powder

the metal increases to a certain limit, beyond which it remains constant. The following conditions are recommended for electrolysis: electrolyte $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ 55-75 g/l (0.4-0.55 n), K_2SO_4 until saturation of the solution, pH = 3.0-3.5, temperature 18-22°C, current density 15-35 amp/dm² corresponding to the iron concentration. The spongy deposit is treated by a 3%-solution of sulfuric acid to eliminate hydroxides. Various inhibitors are added to prevent dissolution of iron metal. The introduction of 0.1% sodium arsenite showed the best results. The iron powder produced by this method contains 97% of iron metal compared to 75% in powder produced by other methods. Drying of the powder is carried out at room temperature during 2-3 days to avoid oxidation, heating and burning of the iron due to the oxygen of the air. Sedimentation analysis of the iron powder showed that 60% of the mass consists of particles with a radius of 3-5μ. The addition of this powder to polyester-urethane materials twice increases their heat resistance. There are 4 graphs, 2 photographs, 1 diagram and 13 references: 10 Soviet, 2 English and 1 Indian.

SUBMITTED: November 2, 1959

Card 2/2

MALKIN, I.M.; CHIRKOVA, N.P.; NEYMAN, V.G.; KARLINSKAYA, L.S.; GANCHENKO, V.M.; POKIDYSHEV, M.I.; CHERNYSHEV, Yu.P.; PLATONOV, G.F.; MIKHAYLOV, M.I.; ABDEYEV, M.A.; MILLER, O.G.; BUTENKO, M.S.; DYUYSEKIN, Ye.K.

Treatment of zinc-bearing slags in electric furnaces with coke conductivity. TSvet. met 33 no. 12:15-23 D '60. (MIRA 13:12)

1. Leninogorskiy polimetallicheskiy kombinat (for Malkin, Chirkova, Neyman, Karlinskaya, Ganchenko, Pokidyshev, Chernyshev). 2. Altayskiy gorno-metallurgicheskiy institut AN KazSSR (for Platonov, Mikhaylov, Abdeyev, Miller, Butenko, Dyuysekin).
(Zinc--Electrometallurgy) (Electric furnaces)

MILLER, O.G.; KURDYAKOV, Yu.P.; ABDEYEV, M.A.; MIKHAYLOV, N.I.

Reducing losses of copper with waste slags at the Karsakpay
plant. Trudy Akad. Nauk Kazakh SSR 11:3-9 '61.

(MIRA 14:8)

(Karsakpay—Copper industry) (Smelting furnaces)

S/137/62/000/003/013/19:
A006/A101

11600

AUTHORS: Kudryavtsev, N. T., Mikhaylov, N. I.

TITLE: Electrolytical preparation of high-dispersed iron powder

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1961, 19, abstract 3V102
("Tr. Mosk. khim.-tekhnol. in-sta im. D. I. Mendeleeva", 1961, no.
32, 296-303)

TEXT: The authors studied conditions of electrolytical preparation of high-dispersed Fe-powder, homogeneous in respect to the size of particles. Best results were obtained with the use of sulfuric-acid electrolyte FeSO_4 0.4 - 0.6 n. + K_2SO_4 , until the saturation of the solution at pH 3.0 - 3.5, 18 - 22°C temperature and 15 - 35 amp/cm² current density. For the purpose of obtaining acid-resistant powder, the spongy deposit in the form of pulp was processed for 10 minutes with 5% H_2SO_4 solution with addition of 0.1% Na arsenite. The humid powder was, after washing in a filter with water and then with acetone or alcohol, placed in a 5 - 10 mm layer at the bottom of a high glass and was held in air at room temperature for 2 - 3 days. The black powder obtained contained 97% Fe-metal. There are 13 references. See also RZhMet, 1961, 1V153.

[Abstracter's note: Complete translation]

A. Pokhvisnev

Card 1/1

L 15652-63

EWP(q)/EWT(a)/BDS

AFFTC/ASD JD

8/0286/63/000/002/0032/0032

ACCESSION NR: AP3000846

AUTHOR: Mikhaylov, N. I.

TITLE: Method of obtaining highly dispersed silver powder. Class C 22d;
40c. 7. No. 152739

SOURCE: Byul. izobreteniy i tovarnykh znakov, no. 2, 1963, 32

TOPIC TAGS: highly-dispersed silver powder, reduction, metal sulfate, trivalent titanium sulfate

ABSTRACT: Method of obtaining highly dispersed silver powder by reducing silver salts with sulfates of metals; its distinguishing feature is that in order to increase the stability of the reduction process, the reducer used is a solution of trivalent titanium sulfate with sulfuric acid added. No graphics.
/Abstractor's note: complete translation./

ASSOCIATION: none

SUBMITTED: 13 Dec 61

DATE ACQ: 28 May 63

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 1/1

PLATONOV, G.F.; ABDEYEV, M.A.; BUTENKO, N.S.; SIZOV, Yu.M.; VERSHININA, V.V.;
MIKHAYLOV, R.I.; SIDORENKO, T.A.; DYUYSEKIN, Ye.K.; PRIMELEV, M.D.;
KUZNAKHEV, E.I.; GANCHENKO, V.M.; SHISHKIN, V.I.; CHIRKOVA, N.P.;
IL'INA, I.I.; BERDUS, Yu.M.

Two-stage method of treating slag and sinter cake in electric furnaces.
Trudy Ak. GIMII AN Kazakh. SSR 14:4-13 '63. (MIRA 16:9)
(Nonferrous metals—Electrometallurgy)

SESSION NR: AR4018306

8/0137/64/000/001/0033/0034

SOURCE: RZh. Metallurgiya, Abs. 10235

THOR: Kudryavtsev, N. T.; Mikhaylov, N. I.; Novikov, A. A.

TITLE: Preparation of highly dispersed powders of iron and copper

TESTED SOURCE: Tr. Kuybyshchensk. aviats. in-t, vyep. 16, 1963, 5-9

PIC TAGS: iron powder, copper powder, electrolytic reduction cell

TRANSLATION: A description is given of laboratory methods of preparing pure, finely dispersed Fe and Cu powders. Fe is obtained in a conical glass electrolytic reduction cell with anodes of low-carbon steel strip and a cathode of Ni or Ti. The electrolyte consists of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ (55-75 g/l) and K_2SO_4 with pH=3.0-3.5. Current density is 15-35 a/dm² and temperature is 18-22°. The Fe sponge formed at the cathode is loosened by the evolving H_2 and collects as a pulp in the bottom part of the cell. Acidity of the electrolyte is maintained by adding H_2SO_4 . The recovered pulp is treated with 3-5% H_2SO_4 containing 1 g/l of Na arsenite inhibitor to remove Fe hydroxide. The Fe powder is then washed with water and acetone, and dried in air at room temperature. The purity of Fe powder is 97%, and its specific surface, 10-15 m²/g.

SESSION NR: AR4018306

m²/g. The Cu powder is obtained by the homogeneous reduction of CuSO₄ in acid solution by Ti sulfate in an electrolytic reduction cell containing a 5% solution of Ti₂(SO₄)₃ (200-250 g/l) acidified with H₂SO₄. The cell has Cu anodes, a soluble cathode (source of Cu ions in solution), and an insoluble Pb cathode for regenerating Ti which is enclosed in a ceramic diaphragm with a 10% solution of H₂SO₄. The current density is 6 a/dm². The Cu powder forming in the bulk of the electrolyte deposits on the bottom of the bath is filtered, washed with water and dried. Neshpor

SUB CODE: MM

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L 10107-63 EWP(q)/EWT(m)/BDS APFTC/ASD JD
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TITLE: Production of very fine copper powder

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ABSTRACT: Very fine, pure copper powder with particles of spheroidal shape were produced by the reaction between titanous sulfate (Ti sub 2 (SO sub 4) sub 3) and cupric sulfate (CuSO sub 4) in an aqueous solution containing 200-250 g/dm sup 3 of sulfuric acid. With cupric sulfate added in excess of the stoichiometric amount, yields of 99.5--99.9% of the theoretical were obtained. Particle size varied depending on the concentration of titanous sulfate; at a concentration of, about 1.0 g-equiv/dm sup 3, particles were 1- to 10-micron in diameter. At concentrations of less than 0.1 g-equiv/dm sup 3, particles were nearly colloidal

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and formed a stable suspension with water. The higher the acidity of the titanous sulfate solution, the purer the copper powder obtained; in a 6--10% solution 200--250 g/dm sup 3 of sulfuric acid produced the optimum acidity. Titanic sulfate produced by the reaction was reduced to titanous sulfate by electrolysis with direct current; the best results were obtained with a cathode current density of 1--3 amp/dm sup 2 and lead anodes. The reduction of cupric sulfate to copper powder and the reduction of titanous sulfate to titanous can be done in the same vessel by either a batch-type method -- dripping a saturated solution of cupric sulfate into a solution of titanous sulfate -- or a continuous method -- anodic dissolution of metallic copper in a solution of titanous sulfate. In both, the reduction of titanous sulfate on lead or copper cathodes occurs simultaneously with copper reduction of cupric sulfate. The batch-type method yields particularly high-purity powders. The advantages of the continuous method are that 1) copper waste products can be used as anodes, 2) there is no loss of titanium and copper salts, and 3) the process may be automated. Laboratory units for both processes have been built, and procedures for treating, drying, and controlling the quality of the powders produced are described. Orig. art. has: 1 table and 3 figures.

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